

AMENDMENTS TO THE CLAIMS

Please amend the claims as shown in the marked-up copy to read as follows:

1. (Previously Presented) A coating composition comprising:

(a-1) at least one component selected from the group consisting of an organosilane represented by general formula (1) wherein n is 1 or 2, and at least one of R¹ groups is an epoxy group-containing substituted derivative, a hydrolyzate of said organosilane and a condensate of said organosilane; and

(a-2) at least one component selected from the group consisting of an organosilane represented by general formula (1) wherein no epoxy group is contained in R¹, a hydrolyzate of said organosilane and a condensate of said organosilane;

(b) an organosiloxane oligomer having a weight average molecular weight of 300 to 100,000;

(c) a photocatalyst; and

(d') an organic solvent having a surface tension at 20°C of 260 μ N/cm or less:

$(R^1)_nSi(OR^2)_{4-n}$ (1)

wherein, R¹, which may be the same or different when two or more R¹ groups are present, represents a monovalent organic group having 1 to 10 carbon atoms; R², which may be the same or different when two or more R² groups are present, represents an alkyl group having 1 to 5 carbon atoms or an acyl group having 1 to 6 carbon atoms; and n is an integer ranging from 0 to 2.

2. (Previously Presented) A coating composition comprising:

(a) at least one component selected from the group consisting of an organosilane represented by the following general formula (1), a hydrolyzate of said organosilane and a condensates of said organosilane;

(b) an organosiloxane oligomer having a weight average molecular weight of 300 to 100,000;

(c) a photocatalyst;

(d') an organic solvent having a surface tension at 20°C of 260 μ N/cm or less:

$(R^1)_nSi(OR^2)_{4-n}$ (1)

wherein, R^1 , which may be the same or different when two or more R^1 groups are present, represents a monovalent organic group having 1 to 10 carbon atoms; R^2 , which may be the same or different when two or more R^2 groups are present, represents an alkyl group having 1 to 5 carbon atoms or an acyl group having 1 to 6 carbon atoms; and n is an integer ranging from 0 to 2; and

(e) a polymer containing a silyl group having a silicon atom bound to a hydrolytic group and/or a hydroxyl group.

3. (Canceled)

4. (Previously Amended) The coating composition according to claim 1, wherein said component (b) has a group represented by general formula - $(RO)_p - (R' O)_q - R''$ wherein R and R' , which may be the same or different, represent alkyl groups each having 1 to 5 carbon atoms, R'' represents a hydrogen atom or an alkyl group having 1 to 5 carbon atoms, and $p+q$ is from 2 to 30, and a silyl group having a silicon atom bound to a hydrolytic group and/or a hydroxyl group.

5. (Previously Presented) A method for producing a coating composition which comprises hydrolyzing and/or condensing:

(a-1) at least one component selected from the group consisting of an organosilane represented by general formula (1) wherein n is 1 or 2, and at least one of R^1 groups is an

epoxy group-containing substituted derivative, a hydrolyzate of said organosilane and a condensate of said organosilane; and

(a-2) at least one component selected from the group consisting of an organosilane represented by general formula (1) wherein no epoxy group is contained in R¹, a hydrolyzate of said organosilane and a condensate of said organosilane; and

(b) an organosiloxane oligomer having a weight average molecular weight of 300 to 100,000;

in the presence of (c') an aqueous dispersion of a photocatalyst having a pH of 3 to 9 and (d') an organic solvent in which the content of an organic solvent having a surface tension at 20°C of more than 260 μ N/cm is 20% by weight or less based on the whole organic solvent:



wherein, R¹, which maybe the same or different when two or more R¹ groups are present, represents a monovalent organic group having 1 to 10 carbon atoms; R², which may be the same or different when two or more R² groups are present, represents an alkyl group having 1 to 5 carbon atoms or an acyl group having 1 to 6 carbon atoms; and n is an integer ranging from 0 to 2.

6. (Canceled)

7. (Previously Presented) A cured product obtained by coating and drying a coating composition comprising:

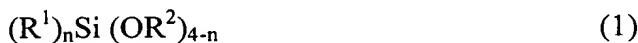
(a-1) at least one component selected from the group consisting of an organosilane represented by general formula (1) wherein n is 1 or 2, and at least one of R¹ groups is an epoxy group-containing substituted derivative, a hydrolyzate of said organosilane and a condensate of said organosilane; and

(a-2) at least one component selected from the group consisting of an organosilane represented by general formula (1) wherein no epoxy group is contained in R¹, a hydrolyzate of said organosilane and a condensate of said organosilane;

(b) an organosiloxane oligomer having a weight average molecular weight of 300 to 100,000;

(c) a photocatalyst; and

(d') an organic solvent having a surface tension at 20°C of 260 μ N/cm or less:



wherein, R¹, which may be the same or different when two or more R¹ groups are present, represents a monovalent organic group having 1 to 10 carbon atoms; R², which may be the same or different when two or more R² groups are present, represents an alkyl group having 1 to 5 carbon atoms or an acyl group having 1 to 6 carbon atoms; and n is an integer ranging from 0 to 2.

8. (Currently Amended) A cured product having a dry coating layer comprising anyone any one of the following undercoating compositions (i) to (iv), and having thereon a dry coating layer comprising the coating composition according to claim 1:

(i) An undercoating composition containing said components (a-1), (a-2), and (e), wherein (e) is a polymer containing a silyl group having a silicon atom bound to a hydrolytic group and/or a hydroxyl group;

(ii) An undercoating composition containing said components (a-1), (a-2), (e), and (f), wherein (f) is colloidal silica and/or colloidal alumina;

(iii) An undercoating composition containing said components (a-1), (a-2), (e), and (g), wherein (g) is colloidal cerium oxide and/or colloidal zinc oxide; and

(iv) An undercoating composition containing said components (a-1), (a-2), (e), (f) and (g).

9. (Canceled)

10. (Previously Presented) The coating composition according to claim 2, wherein said component (a) is

(a-1) at least one component selected from the group consisting of an organosilane represented by general formula (1) wherein n is 1 or 2, and at least one of R¹ groups is an epoxy group-containing substituted derivative, a hydrolyzate of said organosilane and a condensate of said organosilane; and

(a-2) at least one component selected from the group consisting of an organosilane represented by general formula (1) wherein no epoxy group is contained in R¹, a hydrolyzate of said organosilane and a condensate of said organosilane.

11. (Previously Presented) The coating composition according to claim 2, wherein said component (b) has a group represented by general formula - (RO) p- (R' O)q-R" wherein R and R', which may be the same or different, represent alkyl groups each having 1 to 5 carbon atoms, R" represents a hydrogen atom or an alkyl group having 1 to 5 carbon atoms, and p+q is from 2 to 30, and a silyl group having a silicon atom bound to a hydrolytic group and/or a hydroxyl group.

12. (Previously Presented) The coating composition according to claim 1, wherein said component (a-1) is γ -glycidoxypropyltrimethoxysilane.

13. (Previously Presented) The coating composition according to claim 1, wherein said component (b) is a mixture of an oligomer having a weight average molecular weight ranging from 400 to 2,800 and an oligomer having a weight average molecular weight ranging from 3,000 to 50,000.

14. (Previously Presented) The coating composition according to claim 1, wherein said component (d') is isopropyl alcohol.

15. (Previously Presented) The method according to claim 5, wherein said component (a-1) is γ -glycidoxypolytrimethoxysilane.

16. (Previously Presented) The method according to claim 5, wherein said component (b) is a mixture of an oligomer having a weight average molecular weight ranging from 400 to 2,800 and an oligomer having a weight average molecular weight ranging from 3,000 to 50,000.

17. (Previously Presented) The method according to claim 5, wherein said component (d') is isopropyl alcohol.

18. – 20. (Canceled)

21. (Previously Presented) A method for producing a coating composition which comprises hydrolyzing and/or condensing:

- (a) an organosilane represented by the following general formula (1); and
- (b) an organosiloxane oligomer having a weight average molecular weight of 300 to 100,000;

in the presence of (c') an aqueous dispersion of a photocatalyst having a pH of 3 to 9 and (d') an organic solvent in which the content of an organic solvent having a surface tension at 20°C of more than 260 μ N/cm is 20% by weight or less based on the whole organic solvent:



wherein, R^1 , which maybe the same or different when two or more R^1 groups are present, represents a monovalent organic group having 1 to 10 carbon atoms; R^2 , which may be the same or different when two or more R^2 groups are present, represents an alkyl group

having 1 to 5 carbon atoms or an acyl group having 1 to 6 carbon atoms; and n is an integer ranging from 0 to 2;

and subsequently adding

(e) a polymer containing a silyl group having a silicon atom bound to a hydrolytic group and/or a hydroxyl group.

22. (Previously Presented) The method according to claim 21, wherein said component (a) is

(a-1) at least one component selected from the group consisting of an organosilane represented by general formula (1) wherein n is 1 or 2, and at least one of R¹ groups is an epoxy group-containing substituted derivative, a hydrolyzate of said organosilane and a condensate of said organosilane; and

(a-2) at least one component selected from the group consisting of an organosilane represented by general formula (1) wherein no epoxy group is contained in R¹, a hydrolyzate of said organosilane and a condensate of said organosilane.

23. (Previously Presented) The method according to claim 21, wherein said component (a) is selected from the group consisting of methyltrimethoxysilane, dimethyldimethoxysilane, and γ -glycidoxypropyltrimethoxysilane.

24. (Previously Presented) The method according to claim 21, wherein said component (b) is a mixture of an oligomer having a weight average molecular weight ranging from 400 to 2,800 and an oligomer having a weight average molecular weight ranging from 3,000 to 50,000.

25. (Previously Presented) The method according to claim 21, wherein said component (d') is isopropyl alcohol.

26. – 28. (Canceled)

29. (Currently Amended) A cured product having a dry coating layer comprising anyone any one of the following undercoating compositions (i) to (iv), and having thereon a dry coating layer comprising the coating composition according to claim 2:

- (i) An undercoating composition containing said components (a) and (e), wherein (e) is a polymer containing a silyl group having a silicon atom bound to a hydrolytic group and/or a hydroxyl group;
- (ii) An undercoating composition containing said components (a), (e), and (f), wherein (f) is colloidal silica and/or colloidal alumina;
- (iii) An undercoating composition containing said components (a), (e), and (g), wherein (g) is colloidal cerium oxide and/or colloidal zinc oxide; and
- (iv) An undercoating composition containing said components (a), (e), (f) and (g).

30. (Canceled)

31. (Previously Presented) The coating composition according to claim 2, wherein said component (b) is a mixture of an oligomer having a weight average molecular weight ranging from 400 to 2,800 and an oligomer having a weight average molecular weight ranging from 3,000 to 50,000.

32. (Previously Presented) The coating composition according to claim 2, wherein said component (d') is isopropyl alcohol.

33. (Previously Presented) A cured product obtained by coating and drying a coating composition comprising:

- (a) at least one component selected from the group consisting of an organosilane represented by the following general formula (1), a hydrolyzate of said organosilane and a condensates of said organosilane;

(b) an organosiloxane oligomer having a weight average molecular weight of 300 to 100,000;

(c) a photocatalyst; and

(d') an organic solvent having a surface tension at 20°C of 260 μ N/cm or less:



wherein, R^1 , which may be the same or different when two or more R^1 groups are present, represents a monovalent organic group having 1 to 10 carbon atoms; R^2 , which may be the same or different when two or more R^2 groups are present, represents an alkyl group having 1 to 5 carbon atoms or an acyl group having 1 to 6 carbon atoms; and n is an integer ranging from 0 to 2; and

(e) a polymer containing a silyl group having a silicon atom bound to a hydrolytic group and/or a hydroxyl group.

34. (Currently Amended) A cured product having a dry coating layer comprising anyone any one of the following undercoating compositions (i) to (iv), and having thereon a dry coating layer comprising the coating composition according to claim 10:

(i) An undercoating composition containing said components (a), and (e), wherein (e) is a polymer containing a silyl group having a silicon atom bound to a hydrolytic group and/or a hydroxyl group:

(ii) An undercoating composition containing said components (a), (e), and (f), wherein (f) is colloidal silica and/or colloidal alumina;

(iii) An undercoating composition containing said components (a), (e), and (g), wherein (g) is colloidal cerium oxide and/or colloidal zinc oxide; and

(iv) An undercoating composition containing said components (a), (e), (f) and (g).

35. – 37. (Canceled)

SUPPORT FOR THE AMENDMENT

Claims 9, 18-20, 26-28, 30, and 35-37 have been canceled.

Claims 8, 29, and 34 have been amended.

The amendment of Claims 8, 29, and 34 serve to correct an inadvertent typographical error, replacing “anyone” with “any one.”

No new matter has been entered by virtue of the present amendment.